

U. S. DEPARTMENT OF AGRICULTURE

BUREAU OF PLANT INDUSTRY

FIELD NOTES

FORAGE CROP INVESTIGATIONS

FIELD NOTES.

INSTRUCTIONS.

In case of a series of row or plat tests it is desirable to have all the constant conditions recorded for future reference. This can be done on the blank pages in the front of the book for all points not covered by the topic headings. In case several sets of experiments are recorded in a single book the conditions governing each may be given by filling in the outlines provided. (See pp. 7-11.) The blank pages may be used for any additional data which seem desirable, such as the high, low, and mean temperatures, rainfall, and date of the last killing frost in the spring and of the first killing frost in the fall. At the back of the book are blank pages for convenience in making field calculations and temporary notations. Row numbers should be listed in the order that they occur in the field. Records should be made in rate per cent wherever possible and in such manner that the better the variety or strain the higher the percentage recorded. Rules given under "Explanation of headings and abbreviations used in taking field notes in forage-crop investigations" should be followed, in order that the notes on any given crop may be uniform for all the stations.

EXPLANATION OF HEADINGS AND ABBREVIATIONS USED IN TAKING FIELD NOTES IN FORAGE-CROP INVESTIGATIONS.

SIZE OF PLAT.—Stated in fractions of an acre, as $\frac{1}{2}$, $\frac{1}{10}$, etc.; or, if nursery rows, length of the row in feet.

RATE OF SEEDING.—Pounds per acre.

STAND.—Given in percentages or number of plants in the row.

DATE.—Given in figures, as 9-15 (September 15).

UNIFORMITY.—Given in percentages.

VIGOR.—Strength or abundance of growth: *p*=poor; *f*=fair; *g*=good; *ex*=excellent.

CONDITION.—If the crop is biennial or perennial, give percentages showing what portion has survived the winter.

FOLIAGE COLOR.—Indicate the shade of green as follows: *g*=green; *l g*=light green; *d g*=dark green; *y g*=yellowish green; *g g*=grayish green; *p g*=purplish green. The superlative degree of any of these colors may be indicated by placing *v* before the color abbreviations, as follows: *v l g*=very light green.

HABIT OF GROWTH.—Described by the following terms: *e*=erect; *s e*=suberect; *d*=decumbent (prostrate, tip ascending); *p*=procumbent (trailing); *v*=vining; *b*=bushy.

STEMS PER PLANT.—Average number of stems produced from one seed, as 7-8.

MEASUREMENTS.—Given in inches unless otherwise indicated.

DISEASE RESISTANCE.—Give the percentage of noninfection; best determined by estimating the percentage of infection and subtracting this from 100.

DROUGHT RESISTANCE.—Indicate the comparative vigor of plants under conditions of drought, as follows: *p*=poor; *f*=fair; *g*=good; *ex*=excellent.

LODGING.—Described as *none*, *little*, *medium*, *much*.

SHATTERING.—Described as *none*, *little*, *medium*, *much*.

QUALITY.—Indicated as follows: *p*=poor; *f*=fair; *g*=good; *ex*=excellent.

EXPLANATION OF HEADINGS AND ABBREVIATIONS USED IN TAKING FIELD NOTES IN FORAGE-CROP INVESTIGATIONS.

ex=excellent.

QUALITY.—Indicated as follows: p=poor; l=fair; g=good; SHATTERING.—Described as none, little, medium, much. LODGING.—Described as none, little, medium, much.

l=fair; g=good; ex=excellent.

plants under conditions of drought, as follows: p=poor; DROUGHT RESISTANCE.—Indicate the comparative vigor of and subtracting this from 100.

best determined by estimating the percentage of infection DISEASE RESISTANCE.—Give the percentage of noninfection; cated.

MEASUREMENTS.—Given in inches unless otherwise indi- from one seed, as 7-8.

STEMS PER PLANT.—Average number of stems produced p=procumbent (trailing); v=vining; b=bushy. erect; s=suberect; d=decumbent (prostrate, tip ascending); HABIT OF GROWTH.—Described by the following terms: e= very light green.

placing v before the color abbreviations, as follows: v l g = lative degree of any of these colors may be indicated by green; g v=grayish green; p v=purplish green. The super- g=green; l g=light green; d v=dark green; y v=yellowish FOLIAGE COLOR.—Indicate the shade of green as follows: centages showing what portion has survived the winter.

CONDITION.—If the crop is biennial or perennial, give per- l=fair; g=good; ex=excellent.

VIGOR.—Strength or abundance of growth: p=poor; UNIFORMITY.—Given in percentages.

DATE.—Given in figures, as 9-15 (September 15).

ROW.

STAND.—Given in percentages or number of plants in the RATE OF SEEDING.—Pounds per acre.

or, if nursery rows, length of the row in feet.

SIZE OF PLOT.—Stated in fractions of an acre, as $\frac{1}{4}$, $\frac{1}{10}$, etc.

ABBREVIATIONS.

GENERAL.—*v*=very; *med*=medium; *p*=poor; *g*=good; *ex*=excellent (indicates an unusually high degree, seldom occurring); *l*=little; *m*=much; *o*=none or nothing; *lg*=long; *s*=short; *sm*=small; *lrg*=large; *ab*=abundant; *few*=few; *cs*=coarse; *sl*=slender.

COLOR.—*v*=violet; *i*=indigo; *b*=blue; *g*=green; *y*=yellow; *o*=orange; *r*=red; *pur*=purple; *pk*=pink; *l*=light (used before a color); *d*=dark (used before a color).

SHAPE.—*ov*=oval; *rd*=round; *obl*=oblong; *lin*=linear; *obo*=obovate; *cor*=cordate; *cyl*=cylindrical; *elip*=elliptical.

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1. -----

2. -----

3. -----

4. -----

5. -----

6. -----

Seeding method-----

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1. -----

2. -----

3. -----

4. -----

5. -----

6. -----

Seeding method-----

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1.-----

2.-----

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4.-----

5.-----

6.-----

Seeding method-----

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1.-----

2.-----

3.-----

4.-----

5.-----

6.-----

Seeding method-----

Test of _____, 19____

Object_____

Location_____

Kind of soil _____

Character of field_____

Previous crop_____

Preparation of seed bed_____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method_____

Test of _____, 19____

Object_____

Location_____

Kind of soil _____

Character of field_____

Previous crop_____

Preparation of seed bed_____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method_____

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1. -----

2. -----

3. -----

4. -----

5. -----

6. -----

Seeding method-----

----- *Test of* -----, 19-----

Object-----

Location-----

Kind of soil-----

Character of field-----

Previous crop-----

Preparation of seed bed-----

1. -----

2. -----

3. -----

4. -----

5. -----

6. -----

Seeding method-----

Test of _____, 19_____

Object_____

Location_____

Kind of soil _____

Character of field_____

Previous crop_____

Preparation of seed bed_____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method_____

Test of _____, 19_____

Object_____

Location_____

Kind of soil _____

Character of field_____

Previous crop_____

Preparation of seed bed_____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method_____

Test of _____, 19__

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

Seeding method _____

Test of _____, 19__

Object _____

Location _____

Kind of soil _____

Character of field _____

Previous crop _____

Preparation of seed bed _____

1. _____

2. _____

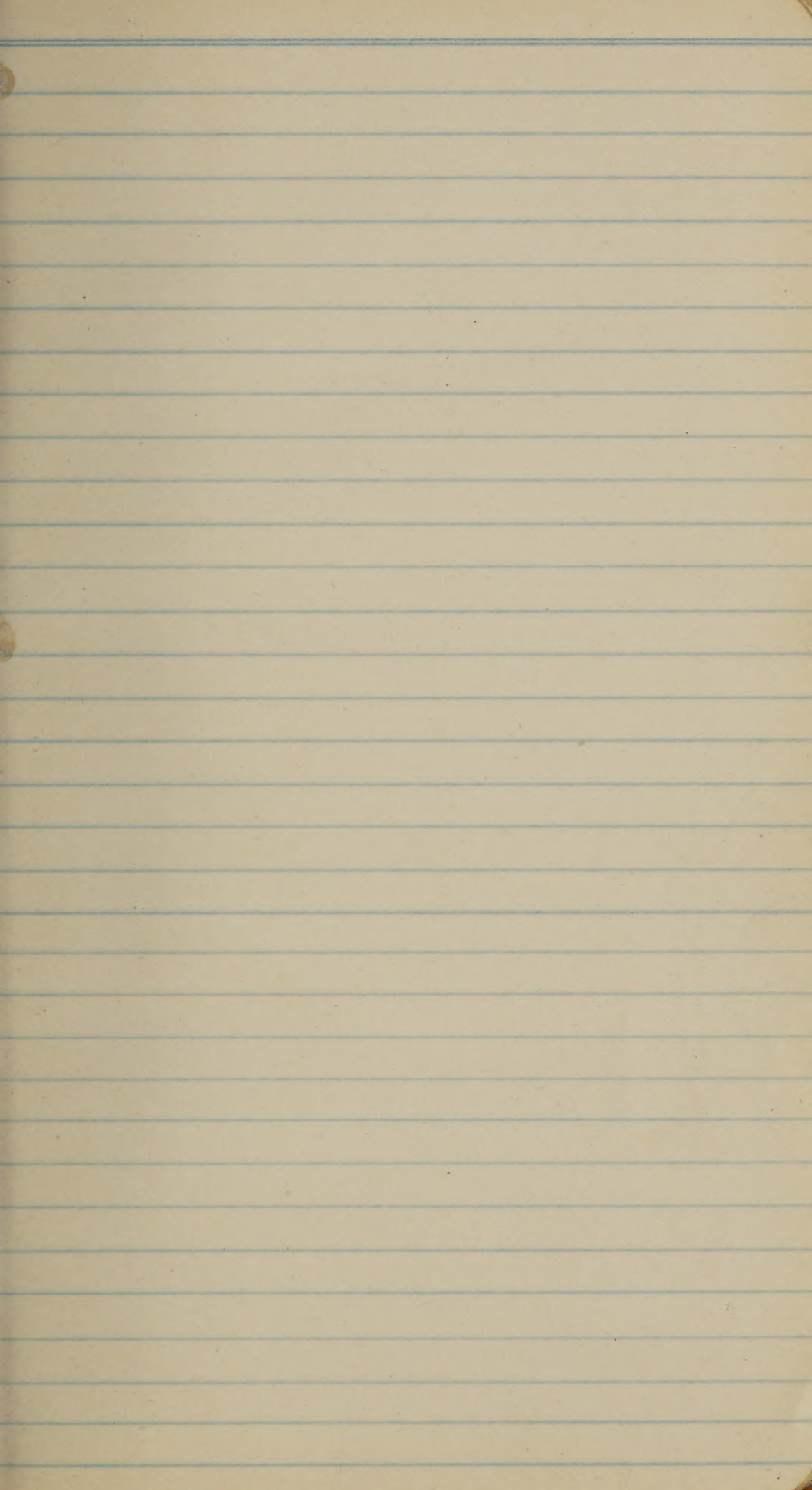
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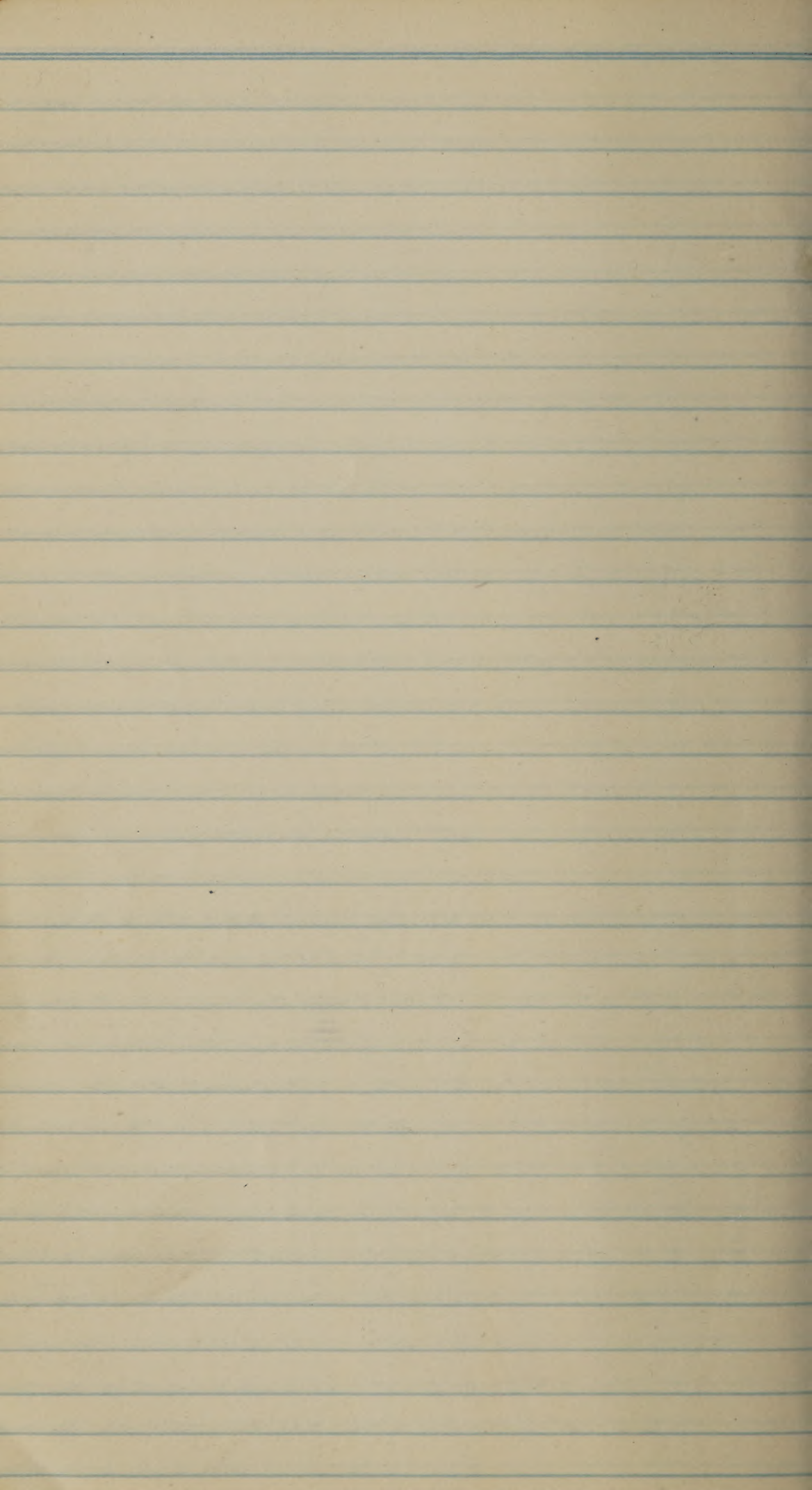
4. _____

5. _____

6. _____

Seeding method _____





X Varietal Name	X No.	Date	X Source
Actne ✓	14954	1905	Shanghai, China.
Aksuki	17268 (Ag. 1183)		R.I. Exper. Sta. Same as Ito Sari.
A.K. ✓	03206	1912	From Lucas Paint Co. who obtained it from Manchuria
Akasoya ✓	03230		
Allison Black ✓	03957		Single plant selection by D.T. Allison, Baxter, Tenn.
Aksarben ✓	36576	1913	Fakumen, Manchuria
Amherst ✓	17275	1901	Tokio, Japan
Ao-Tairyu ✓	02702		C.O. Croner, Lafayette, Ind. 1917. Originally from Japan.
Arlington ✓	22899	1908	Paotingfu, China
Auburn ✓	21079-A	1907	Selection from Shington, 1907 Arlington Farm.
Austri ✓	17263	1901	Pingyang, Korea.
Austrian Green	02750		
Ayachi ✓	03213		
Arksoy	37335		

Plant					Flowers	Pubescence		
Height mm	Habit	Branch No.	Leaves persist	Mature Lvs.	Color	Season Lvs.	Color	Armt.
42-48		Ma	no	136	P.W	70-75	G.T	
30-36	E	Ma	no	110	P	50-55	T.G	Me
	E	Me	no	115	P	50-55	T	
	E	Ma	no	137	W		T	
24-30	E	Me	no	110	P.W	40-45	G	Me
20-24	E	Ma	no	115	P	50-55	T	Me
16-22	E	M.F	no	100	P	35-40	T	Me
36-42	E.T Tw.	Me	no	125	P.W	60-65	T	Me
4-30	E	Me	no	110	W.P	40-45	G.T	Me
30-36	E	Me	No	130	P.W.	50-55	G	
30-36	E	Ma	No	145	P	55-60	G	
16-20	E	Me	No	104	P.W	35-40	T	

[illegible]

Seed			
Per cent oil	Per cent protein	No. seed to bu.	Wt. of bu. lbs.
18.9	34.9	163,200	
19.2		159,000	
19.2			
18.0			
21.4	35.6	161,000	
19.0			
19.1	41.4	170,880	
16.3	36.0		
15.3			
		432,960	
19.0	33.0	142,080	
17.7			

Per
cent
oil

Per cent protein

No. seed
to bu.

Wt. of bu.
lbs.

6.87

34.9

163,200

19.2

159,000

19.2

18.0

21.4

35.6

161,000

19.0

19.1

21

170,880

15.3

432,960

19.0

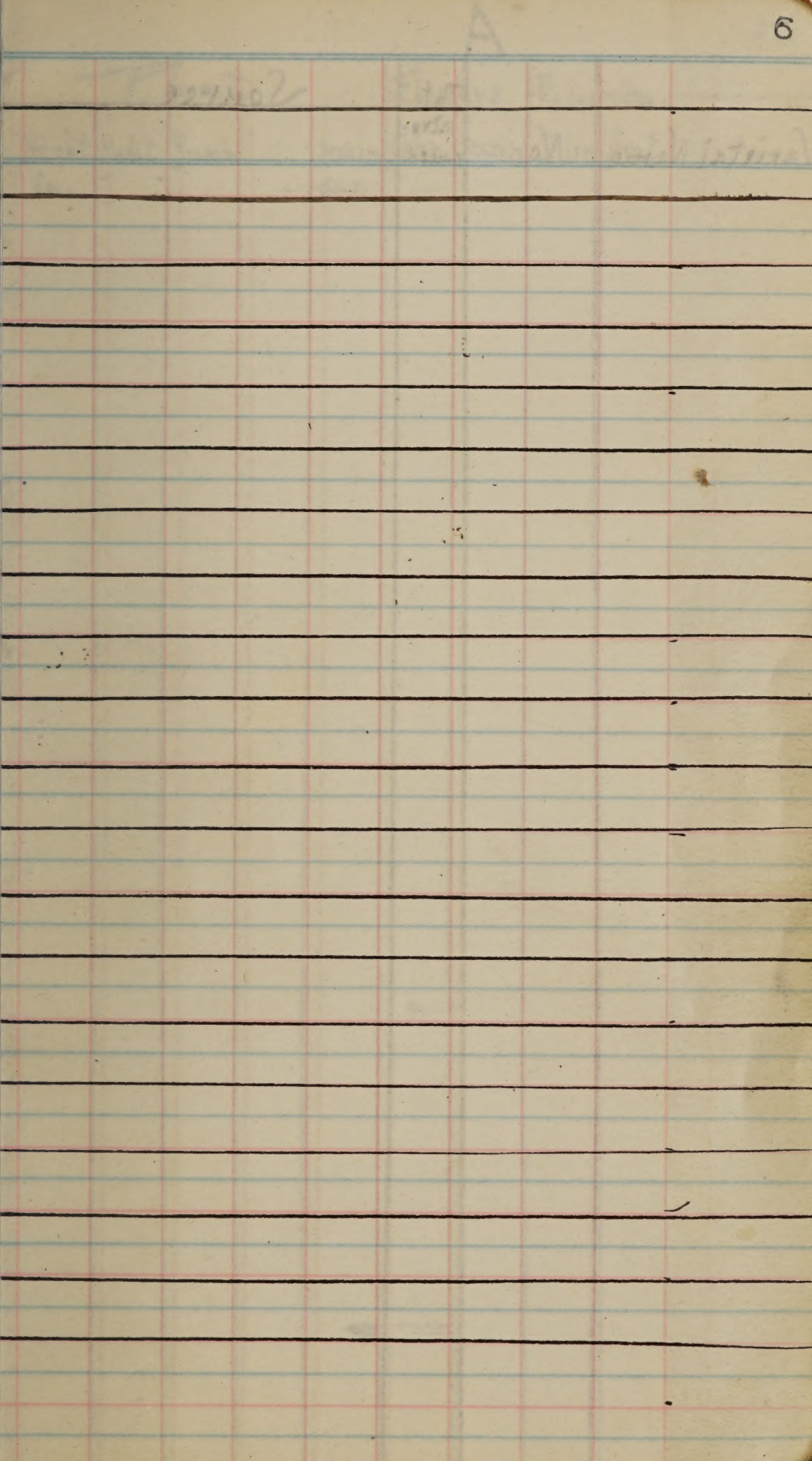
33.0

142,080

17.7

Pods

Color	long mm.	wide mm.	thick mm.	No. seed	Shatter	Shape
	1 1/2 - 3/4			2-3	L	T
	35-45	8-9	6-7	2-3	L	T
	1 1/4 - 1 1/2			2-3	L	T
				2-3		T
	40-50	9-11	6-8	2-3	L	T
	1 - 1 1/2			2-3	Mo	T
Tawny	1 1/2 - 3/4			2-3	L	S.C.
	1 1/4 - 1 3/4			2-3	Mo	C
	5-6.5	10	7	2-3	L	T
Gray	3/4 - 2			2-3	L	T
Gray	1 1/2 - 3/4			2-3	Mo	T
Tawny	1 1/2 - 3/4			2-3	Mo	T



Varietal Name

No.

Date
Intro-
duced

Source

Plant

Flowers

Pubescence

Height
in.

Habit

Branches

Season
days.

Color

Season

Color

Arms.

Seed

Per cent oil	Per cent protein	No. of seed to bu.	Wt. of bu. lbs.
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[illegible]

Varietal Name	No.	Date intro- duced	Source
Baird ✓	22333	1901	Selected from Brownie (17256)
Bakaziro	17275		Same as Amherst
Banner			
Barchett ✓	23232	1908	Shanghai, Kiangsu, China.
Best Green	17264		Same as Tokio
Best White	17275		Same as Amherst
Biloxi ✓	23211	1908	Tangai, China
Black Champion	02707	1911	Single plant from field of Sattē. col. A. Smith, Warren, Ind.
Black	17251		See Nuttall
	17254		" Ebony
Black Beauty	01622, 01623, 03667		See Ebony
Black Eye brow	30744	1911	Wulaikai, Manchuria
Brindle ✓	20407	1906	Murkoechofka, Siberia
Brooks ✓	16789	1905	Hangchow, China.
Brown	03719, 03649.		See Mammoth Brown
Brown Eda Mame	17257		Same as Eda
Brownie ✓	17256 (6414)	1901	Pingyang, Korea.
Buckshot ✓	17251		
Buster Brown	02107 02715		See Trenton.
Butter ball ✓	17273	1903	R.I. Exper. Sta. Originally from Japan.
Black Sable	03666		Same as Sable.

Plant				Flowers		Pubescence		
Height in	Habit	Branches	Leaves persist	Mature Daz.	Color	Season Daz.	Color	Armt.
24-30	E	Ma	No	135	P.W	60-65	G	
36-42	S.E	Ma	No.	155	P	80-85	T	Me
8-60	E	Ma	No	170	P	85-90	T	Me
30-36	E	Ma	no	107	P.W	55-60	T	Me
24-30	E	Ma	No	107	P.W	35-40	T	Me
24-30	E	Few	No	105	P	35-40	T	Me
36-42		Me		125	P.W	55-60	G	
24-30	E	Ma	No	120	P	50-55	G	
18-24	E	Ma	No	100	W	35-40	T	
	E		no		W	85-90		
18-24	E	Me	No	110	W	45-50	G	Me

Seeds						
Color	length mm.	wide mm.	thick mm.	Color hilum	Color germ	Iodine value of oil
Tawny	5½-6				Y	
Brown	6-7	3-4	2-3	br	Y	
Brown	10-11	7-8	6-7	br	Y	
Black					Y	
Black						
Black						
Bl. with br. saddle.	7-8	6-7	4-5	bl	Y	
	8-9				Y	
Straw yellow	7½-8				Y	
Black	8-8½				Y	
Straw yellow	7½-8				Y	
Black						

Seed

Per cent oil	Per cent protein	No. of seed to bu.	Wt. of bu. lbs.
18.8	36.1	288,960	
11.8	45.9	645,000	
20.1		112,000	
15.8			
19.9	40.8	148,000	
20.2	39.0		
18.3		185,280	
14.0		327,360	
15.6	38.3		
17.7	37.0		

Pods

Color	long mm.	wide mm.	thick mm.	^{No} seed	Shatter	Shape
	1/4-1/2			2-3	L	T
Tawny	30-35	4-5	3-4	2-3	L	M.C.
Tawny	60-65	8-10	8-9	2-3	L	S.C.
	1/4-1/2			L-3	L	M.C.
	35-45	8-9	5-6	2-34	L	T
	1 3/4-2 1/4			2-3	L	TT
	1 3/4-2				L	TT
	1 1/8-1 1/2			2-3	L	T
	1 1/2-2			2-3	L	T
	1 1/2-2			2-3	L	T

[illegible]

25 7

[illegible]

Varietal Name	No.	Date intro- duced	Source
Chadaiisu	17257		See Eda
Chernie ✓	18227	1906	Khabarovsk, Siberia.
Chestnut ✓	20405B	1907	Fieldman selection from Habara, Arlington Farm
Chiquita ✓	27707	1910	Hankow, China.
Cloud ✓	16790	1905	Hangchow, China
Columbia ✓	22897	1908	Pootungfu, China
Columbian	03773	1920	H. Field Seed Co., Shenandoah, also (Same as Columbia)
Crossbred #6	Ag. 2031		
Cayuga	65393		

[illegible]

Color	Long mm.	wide mm.	thick mm.	Color hilum	Color germ	Iodine value of oil
Black	8-11	5-6	3-4	Bl.	Y	
Russet	7-8	5-6	4-5	Ru	Y	
Straw yellow	6-7	5-6	4-5	Br.	Y	
Black	7-7½				Y	
Green	7-8	5-6	4-5	Ta	G	
Black						

Seed

Per cent oil	Per cent protein	No. of Seak to bu	Wt. of bu. lbs.
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17.3	38.8	306,240	
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18.3		195,800	
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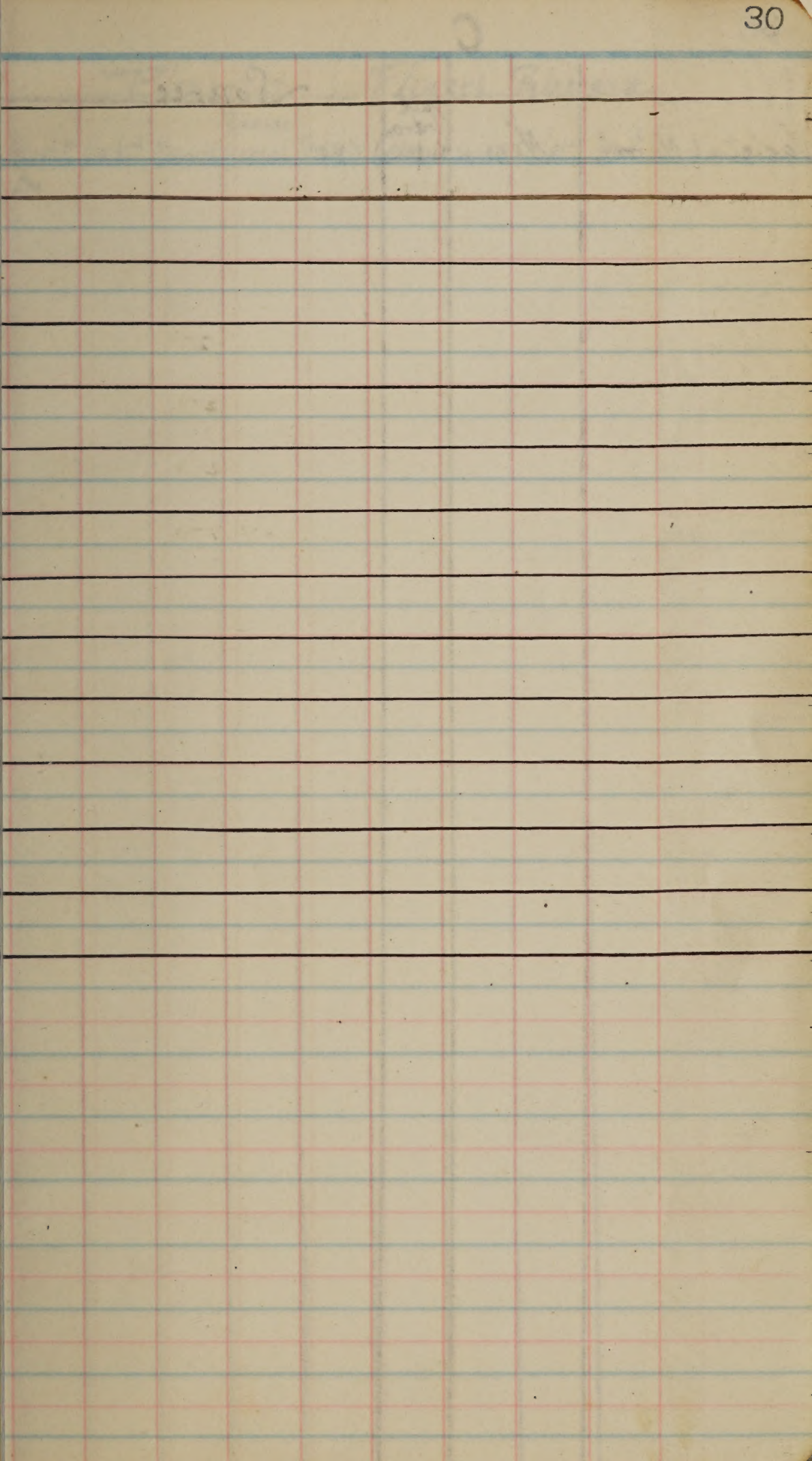
17.6	46.9	242,500	
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15.2	34.3	392,640	
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18.2			
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18.6		200,500	
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Color



[illegible]

[illegible]

Seed

[illegible]

Seed

[illegible]

Varietal Name	No.	Date introduced	Source
Paisa Name			
Dugger ✓	17268C	1907	Field mass selection in 1907 from The Sam. Arlington Farm.
Dwarf Early Yellow			
Darro ✓	02698		
Dwarf Green	01711, 03680.		
Dunfield ✓	36846		
Dwarf Brown			
Dixie	37330	1914	
<u>Delno shat</u>	Sta. #6679		
<u>Delsta</u>	Sta. #6677		

[illegible]

Seed - trial

[illegible]

[illegible]

Per
cent
oil

Per cent. protein	Per cent. water	Per cent. fat	Per cent. ash	Per cent. carbohydrate
100	0	0	0	0
90	10	0	0	0
80	20	0	0	0
70	30	0	0	0
60	40	0	0	0
50	50	0	0	0
40	60	0	0	0
30	70	0	0	0
20	80	0	0	0
10	90	0	0	0
0	100	0	0	0

No. of seed
to bu

Wt. of bu.

165.

17.3

Pods

[illegible]

Varietal Name	No.	Date intro duced	Source
Early	17268		Barteldes Seed Co., Lawrence, Kans. Ag. 13/16. (Same as Ito Sam).
Early Black	11179		Same as Buckshot
Early Brown	25161	1909	From progeny of Early yellow and Early Black (E. F. Diehl, Eastburg, Ind.)
Early Green	17261		Same as Guelph.
Early Ita Marie	17271		Same as Haberlandt
Early Japan	17273		Same as Butterball
Early White	17268		Same as Ito Sam.
Easy Cook	34702	1894	Shantung Province, China
Ebony	17254	1901	Pingyang, Korea
Eda	17257	1890	Kansas Exper. Sta. from Japan.
Edna	17252C	1907	Field mass selection in 1907 from Flat King, Arlington Farm.
Eda Marie			
Edward	14953	1905	Shanghai, China
Eltom	20406	1906	Khataroosk, Liberia.
Etampes	21818	1908	Vilmorin-Andrieux, Co., Paris, France.
Extra Early Black	Ag. 1474		Hammond Seed Co.. Same as Buckshot
Evan's Early Black	03214		Evan Evans, West Branch, Mich.
Evan's Ogema ⁴⁹	03215		E. E. Evans, West Branch, Mich.
Early Yellow	02762, 03372 02751, 03285		Same as Ito Sam 17
Early Wisconsin Black.	03610		

Plant					Flowers	Pubescence		
Height	Habit	Branches	Leaves persist	Mature	Color	Season	Color	Amt
17.				Bas.				
	E	Ma	No	110	P	40-45	T	
	E	Ma	No	125	P	45-55	G	
0-36	E	Ma	No	120	P	45-50	T	
0-24		Me	No	110	W	35-40	T	
0-36		Me		130	P	60-65	T	
-42		Ma		150	P	70-75	G	
	E	Ma		110	P	35-40	G	
15.	E	Few	No	95	P.W.	35-40	T	Me
4	E	Ma	No	92	W	35-40	T	

Seed						Co
Color	Length mm.	wide mm.	thick mm.	Color hilum	Color germ	Iodine value of oil
Black						
Brown	7-8	6-7	4-5	Br.	Y	
Straw yellow	7-9	6-8	6-7	Br.	Y	
Black	6-7	5-6	4-5	Br.	Y	
Black					Y	
Straw yellow	8-9	6-7	5-6	Pale	Y	
Black						
Black					Y	
					Y	
Black					Y	

2009

Pods

Color	Long C.M. mm.	wide mm.	thick mm.	No. of seed	Shatter	Shape
Tawny						
Tawny	35-45	9-10	6-7	2-3		
Straw yellow	45-55	10-12	7-8	2-3		
Black				2-3	Mo.	
	1 3/4-2			2-3	Mo.	
	1 1/8-1 1/2			2-3	Mo.	
	2-2 1/2			2-3	L	
Straw yellow	40-50	9-10	6-7	2-3	L	
	1 1/8-2 1/4			2-3	L	T
	1 3/4-2			2-3	L	T

Varietal Name	No.	Date intro- duced	Source
Essex	03852		
Extra Early Black Eyebrow	03738		
Extra Select Sable	03677		
Early Mammoth Black	03595		
Early Wilson	03804		
Early Blackeye			Is Wilson (Moy)

[illegible]

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Varietal Name	No.	Date intro- duced	Source
Fairchild ✓	19184	1906	Newchang, Manchuria.
Farnham ✓	22312	1908	
Flat King ✓	17252 (6312)		
Flava ✓	16789A		
Fukunaga ✓	02703	1907	C.O. Croner, Ind. Exp. Sta. Originally from Japan.
Flat Black	6312		Same as Flat King

[illegible]

[illegible][illegible]

2505

[illegible]

Pods

Color	long mm.	wide mm.	thick mm.	No. of seed	Shatter	Shape
	$1\frac{1}{2} - 1\frac{3}{4}$				L	T
	$1\frac{1}{2} - 1\frac{3}{4}$			2-3	Mo	T
	$2\frac{1}{4} - 2\frac{1}{2}$			2-3	L	C
	$1\frac{3}{4} - 2$			2-3	L	C
dark brown	$1\frac{1}{2} - 1\frac{3}{4}$			2-3	L	T

2-1

2-2

2-3

2-4

Varietal Name	No.	Date intro- duced	Source
Giant Yellow	22415		
Gosha	17277		
Green	02946, 03822,		Same as Guelph.
Green Samarow	17260		
Guelph ✓	17261	1889	From Japan by Dr. W.P. Brooks, Mass. Exp. Sta.
Giant Brown	03952		
German Coffee Berry	03806		

Plant				Flowers	Pubescence
Height in	Habit	Branches	Leaves persist	Mature Color	Season Color Amt
4-36	E.	Ma	No	115 P	45-50 T
	B.				

[illegible][illegible]

269

6922

Color	Long mm.	wide mm.	thick mm.	No. of seed	Stratter	Shape
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Varietal Name	No.	Date intro- duced	Source
Habaro ✓	20405	1906	Khabarovsk, Siberia
Haberlandt ✓	17271 (6296)	1901	Pingyang, Korea.
Hahto ✓	40118	1915	Wakamatsu, Japan
Hankow ✓	6559	1910	Hankow, China
Hansen ✓	20409	1906	Markocchofka, Siberia
Hollybrook ✓	17278	1906	Selected from Mammoth by Wood & Sons, Richmond, Va.
Hong Kong ✓	22406	1908	Hongkong, China.
Hope ✓	17267	1901	Tokio, Japan
Hoosier ✓	30746	1911	Wakulai, North Manchuria
Hinangdon ✓	03228		
Hankow Black	01315		
Hankow Yellow	01320		
Hollybrook Early	03725 03810		
Hollybrook(N)			
Hamilton			Introduced by Ohio Exp. Sta. as Ohio #9035
Harbinsoy			

Plant				Flowers		Pubescence	
Height in.	Habit	Branch	Leaves persist	Mature Dase	Color	season	Color Amt.
	E	Ma	No	110	P	35-45	G.T
4-36	E. Bu B.	Ma	No	125	P.W.	50-55	T
0-36	E. Bu B	Ma	No	130	P	55-60	T
				100	P		T
	E	Few	No	135	W	60-65	G
0-36	E Bu B	Ma		145	P.W	70-75	G
	E B	Ma	No	115	P.W	35-40	T
18		Me		116	W	50-55	G
	E	Ma	No.	125	P	50-55	T

Seed

Color	long mm.	wide mm.	thick mm.	Color hilum	Color germ	Iodine value of oil
Straw yellow	8-9	6-7	5-6	Br.	Y	
Straw yellow	8-9	7-8	6-7	P.Br.	Y	
Olive yellow	10-12	8-9	5-6	Bl.	Y	
	5					
	5-5 $\frac{1}{2}$				Y	
Straw yellow	6-7	5-6	5-6	L.Br.	Y	
	7-8				Y	
Straw yellow	7-8	6	5	Br.	Y	
	8-9	6	5		Y	
	7-8	6-7	5			
Brown	9-10	7-8	5-6	Br.	Y	

Per cent oil	Per cent protein	No. of seed to bu	Wt. of bu. 165.
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79.6	37.9	188,200
------	------	---------

19.4		
17.9		74,800

18.2	35.5	157,400
------	------	---------

20,5		
------	--	--

17.9	35.6	106,600
------	------	---------

19.3	150.700
------	---------

19.2	123,800
------	---------

Pods

Color	Long cm. mm.	wide mm.	thick mm.	No. of seed	Shatter	Shape
	35-45	9-10	6-7	2-3	L	T
brown	40-50	9-10	6-7	2-3		T
brown	60-80	13-15	6-7	2-3	L	T
	1 1/4 - 1 1/2			2-3	L	G
light (straw)	35-45	9-10	6-7	2-3	L	T
	1 1/2 - 2 1/4			2-3	L	T
light (straw)	40-45	8-9	6-7	2-3	L	T
	40-50	8-9	6-7	2-3	L	T
	35-45	9-10	6-7			
	3-4	8-9	6-7			
brown	45-55	10-11	6-7	2-3	Me	T

H

[illegible]

Plant

Flower

Pubescence

Height in	Habit	Branches	Leaves persist	Season char.	Color	Season char.	Color	Amb.
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937007

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14550

Variety	No.	Date intro- duced	Source
Ita Name			
Ignotum	02201	1914	Selection by E.E. Evans. West Branch. Mich.
Ito San ✓	17268	1899	
Illinois #13-19	03617		
Illinois #13-28	03625		
Illinois #13-164	03626		
Imported #96326			
Imp. Manchua	03574		
Ito San Cross			
Ito San Yellow	0192		
Ito San Yellow	03670		
Illini			

[illegible][illegible]

Seed

Per cent oil	Per cent protein	No. of seed to bu	Wt. of bu lbs.
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16.9	38.6	198,900	
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[illegible]

[illegible]

Black

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三

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1

1

1891

Black

 $7-7\frac{1}{2}$

7002

Color

Long

wide

thick

No. of
seed

Shatta

Shape

מתן.

mm.

mm

2-3

No

2

7

五

K

Variety Name	No.	Date intro duced	Source
Kaiysuki Daizu			
Kiysuki daidzu			
Kimarre ✓	03210		
Kingston ✓	17255	1889	
Kysuki			
Kimusume ✓	02700	1917	C.O. Croner, Ind. Expt. Sta.
Kentucky	03590		
Kentucky "A"	03623		
Kentucky	02197		
Manchuria	02720		
Korean			
Kingwa			

Height in	Habit	Branches	Leaves persist	Mature Dns.	Flower		Pubescence	
					Color	Season	Color	Amt.
				100	P.W		G	
	E.B	Ma	No	125	W		T	
24-30	E			120	P		G	
	E	Ma	no		W	50-55	G.T	
	E	Ma	no	120	P		G	

Seed						
Color	Long mm.	wide mm.	thick mm.	Color hilum	Color germ	Iodine value of oil
Straw yellow					Y	
Black	5½-6				Gr.	
Straw yellow					Y	
Straw yellow					Y	
Black						

Long

wide

thick

Color
hilum

Color
getting

Iodine
value
of oil

1717.

三三

二二

Straw yellow

4

Black

5 1/2 - 6

Gr.

Straw yellow

2

Straw yellow

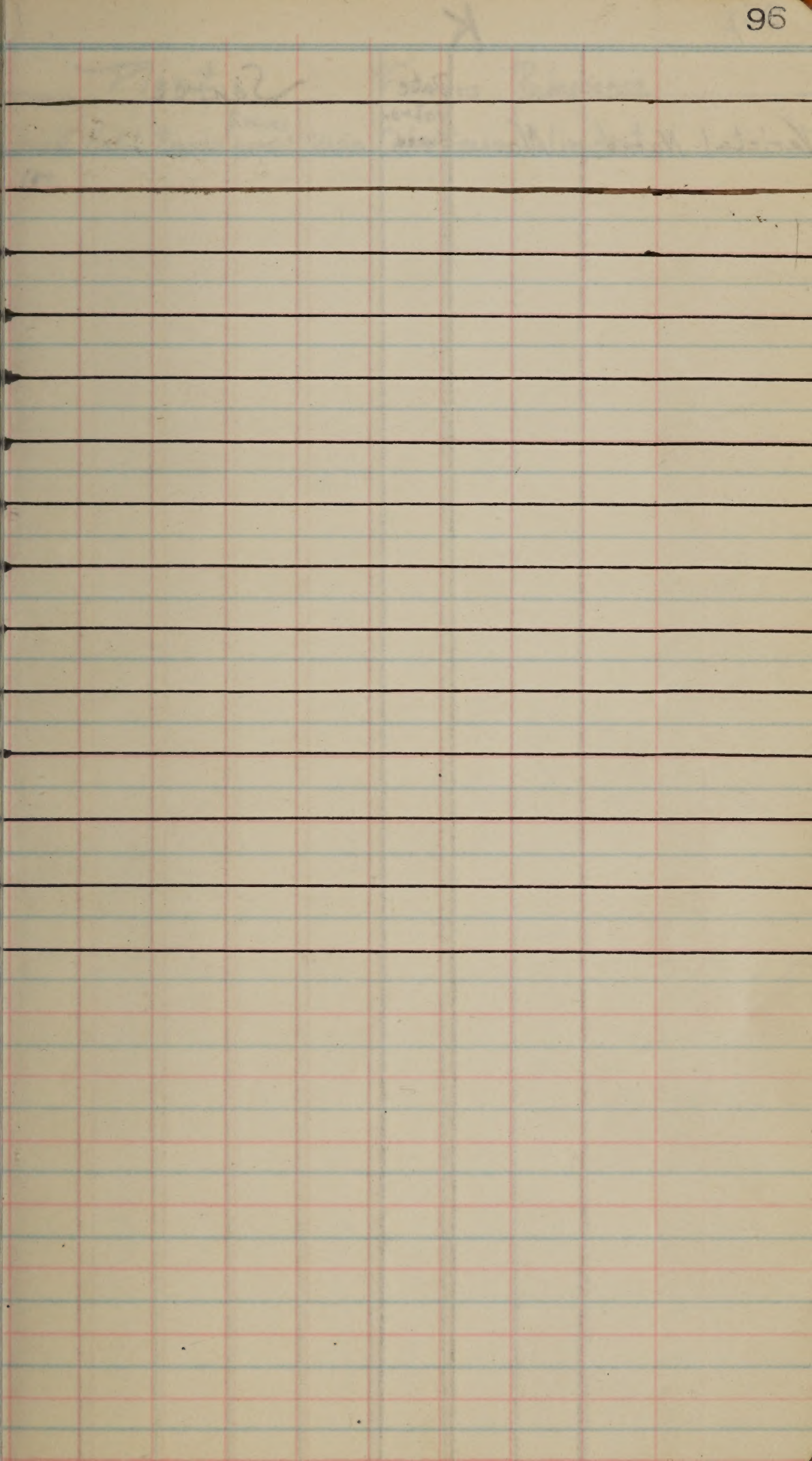
✓

Black

Per cent oil	Per cent proteins	No. of seed to bu.	Wt. of bu. lbs.

Pods

[illegible]



K

Varietal Name

No.

Date
intro.
duced

Source

151

Seed

[illegible]

Seed

Per cent oil	Per cent protein	No. of seed to bu.	Wt. of bu. lbs.
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Pods

Color

long

wide

thick

No.
of
seed

Shatter

Shape

mm.

mm.

mm.

Varietal Name	No.	Date intro- duced	Source
Laredo ✓	40658	1914	Yangping, China.
Large Black			
Late			Same as Mammoth
Late Yellow			Same as Mammoth
Lexington ✓	17862E	1907	Field mass selection from Sherwood, Arlington Farm. 1907
Lowrie ✓	22898A	1908	Field mass selection from 22898, Arlington Farm. 1908
Late Ita Mame	8424		
Large Brown	03153		Same as Mammoth Brown
Large Yellow	0580		
Lioxitan			

Plant

Flower

Pubescence

Height in	Habit	Branch	Leaves persist	Mature Days	Color	Season	Color	Amt.
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E	Ma	No	140	P.W.			T	
---	----	----	-----	------	--	--	---	--

E	Ma	No	125	P.W.	50-55	G		
---	----	----	-----	------	-------	---	--	--

			115	P.W.			T	
--	--	--	-----	------	--	--	---	--

Seed

[illegible]

5042

Pods

Color

Long

wide

thick

No. of
seed

Shatter

Shape

mm

mm

mm

30-40

7-8

3-4

2-3

L

M.F.

gray

40-45

7-8

5-6

2-3

L

T

Varietal Name

No

Date
intro-
duced

Source

[illegible]

Seed

Per cent oil	Per cent protein	No. of seed to bu.	Wt. of bu. lbs.
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Pods

Color

long

wide

thick

No.
of
seed

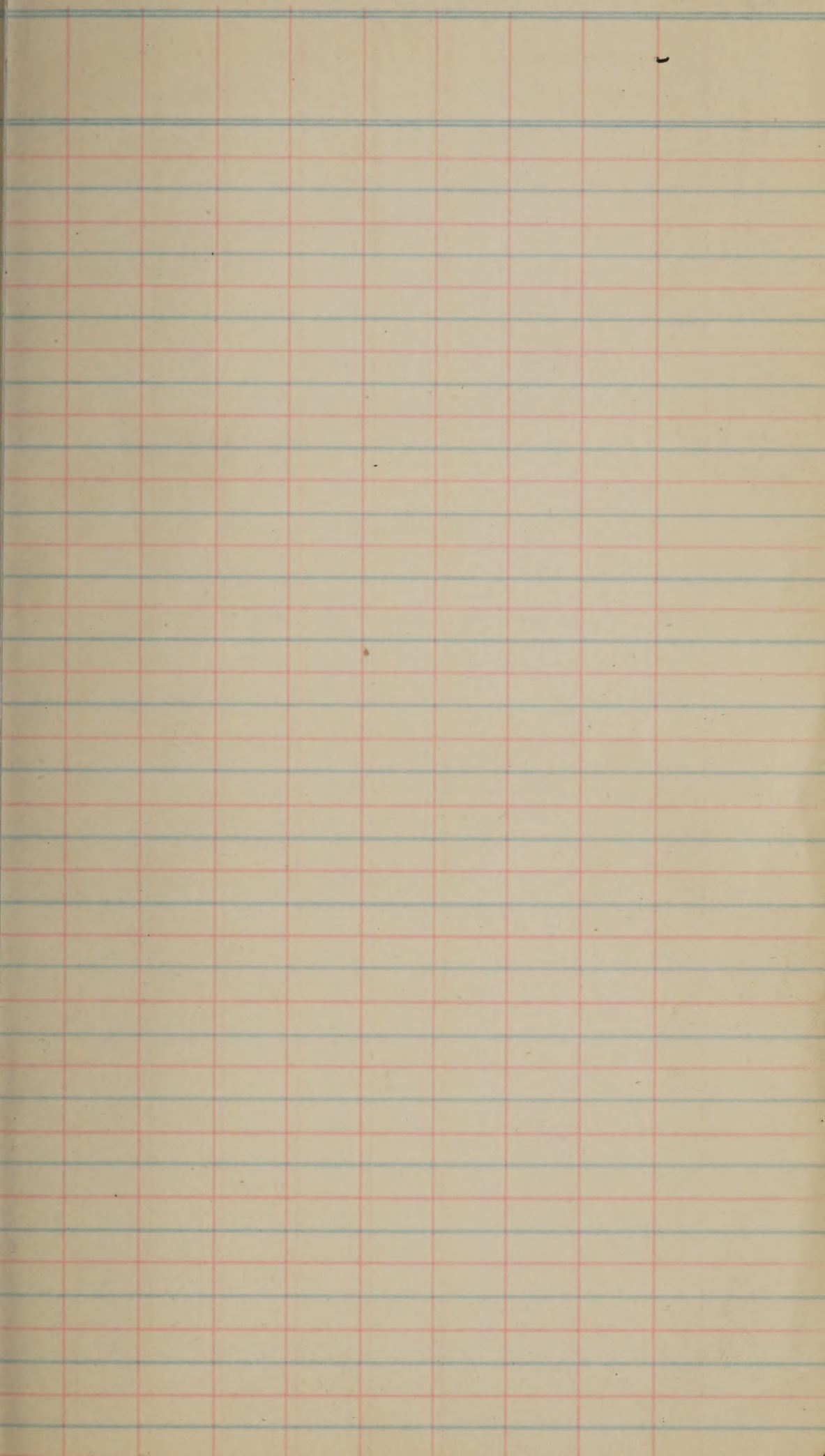
Shatter

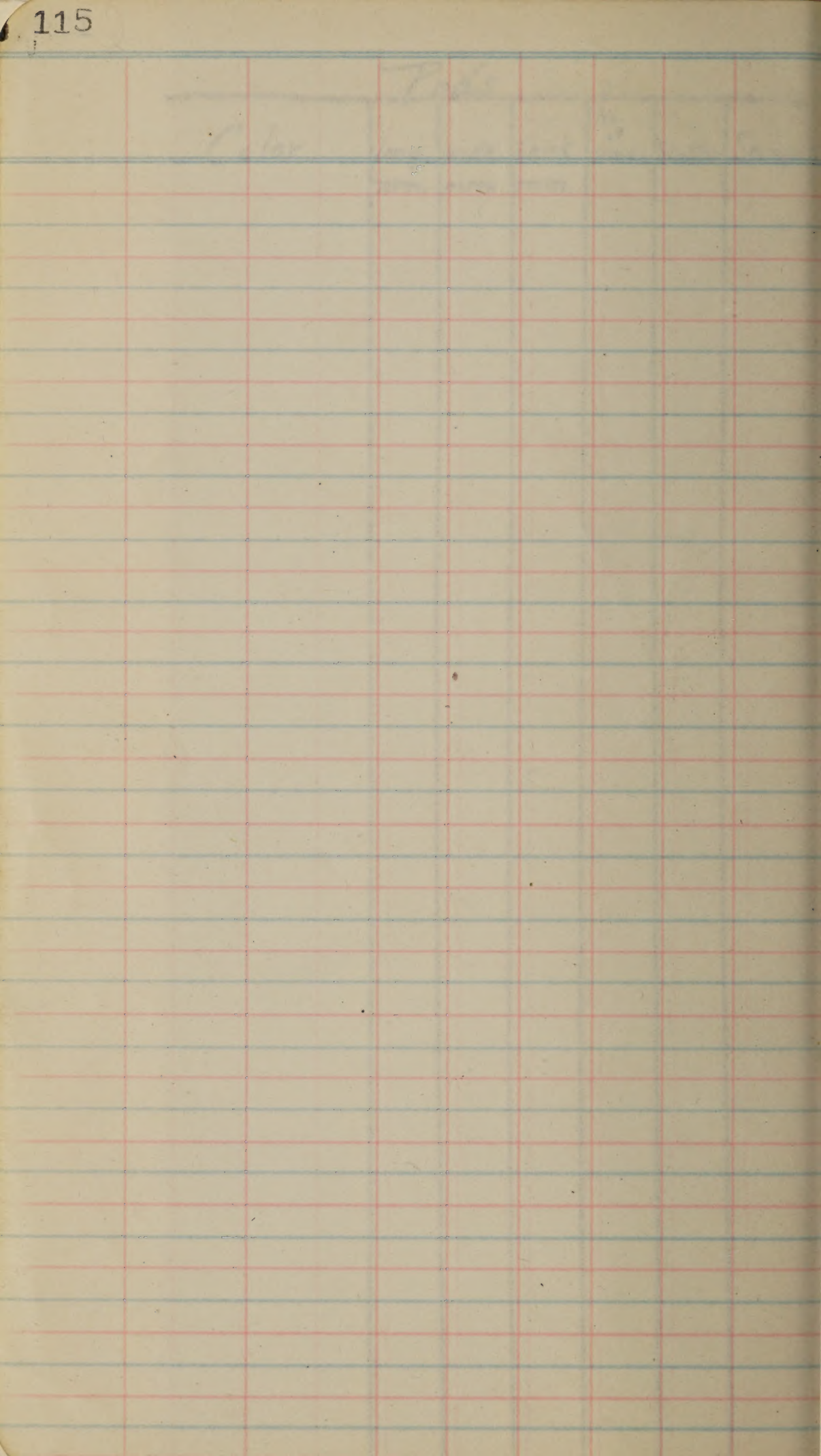
Shape

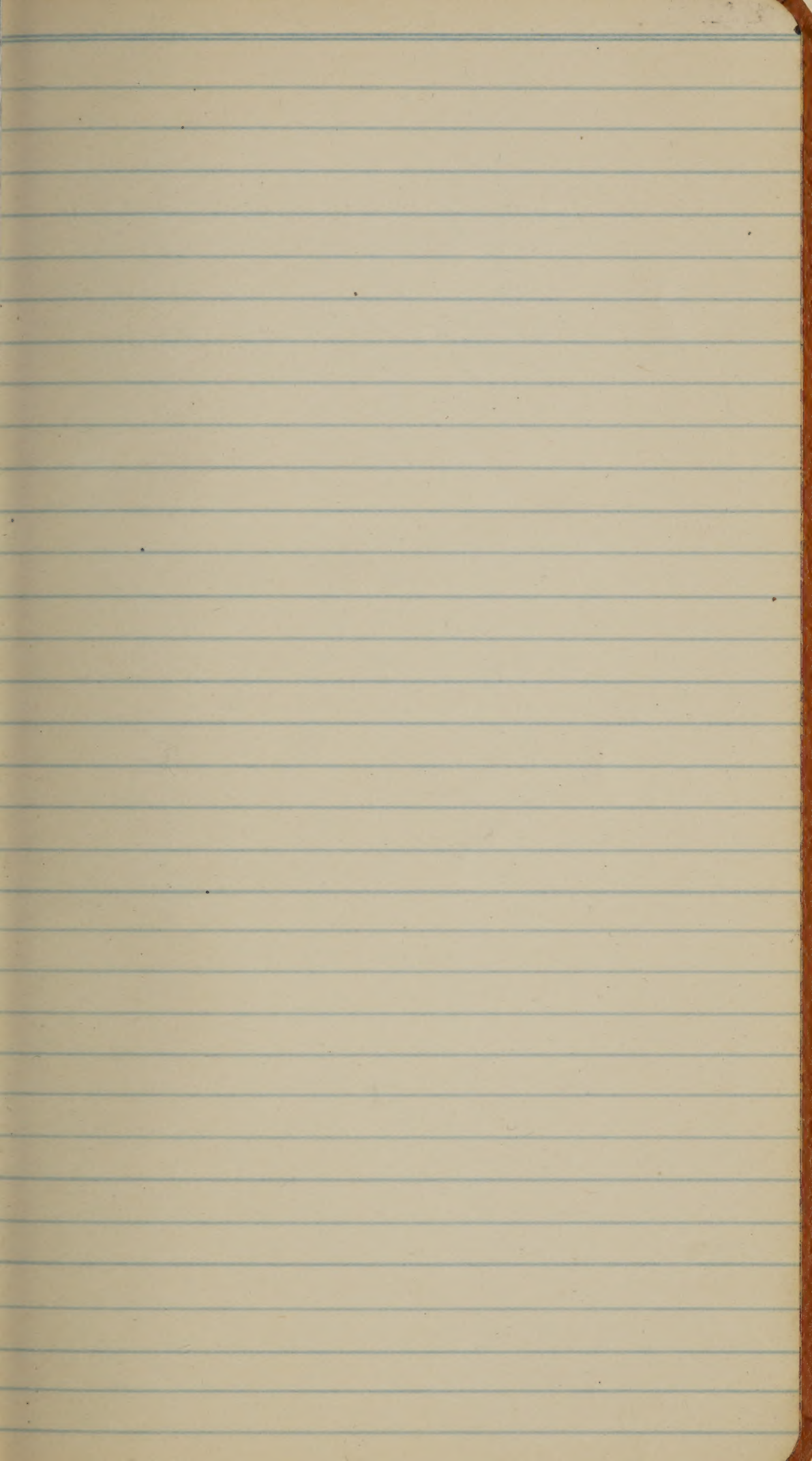
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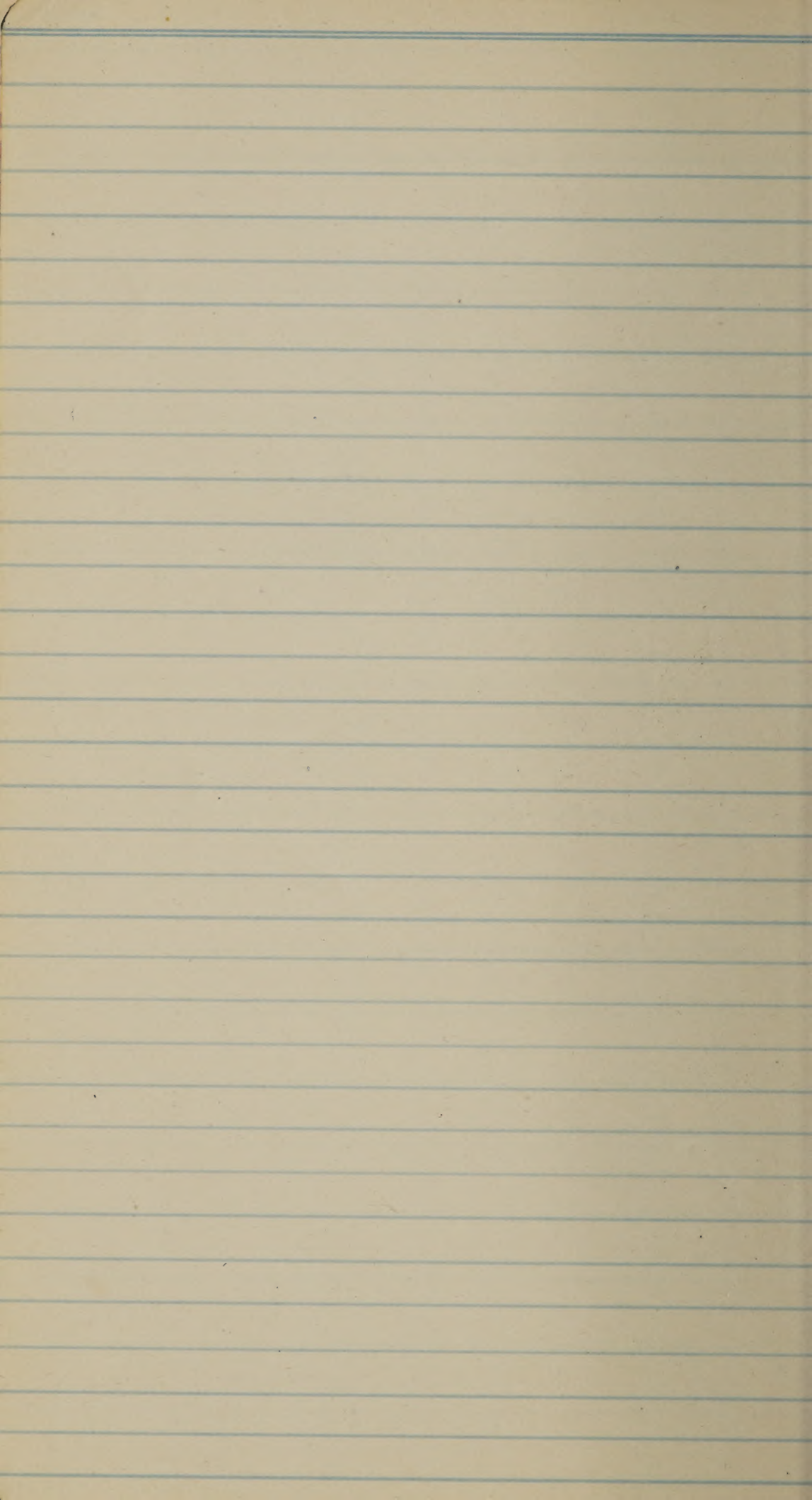
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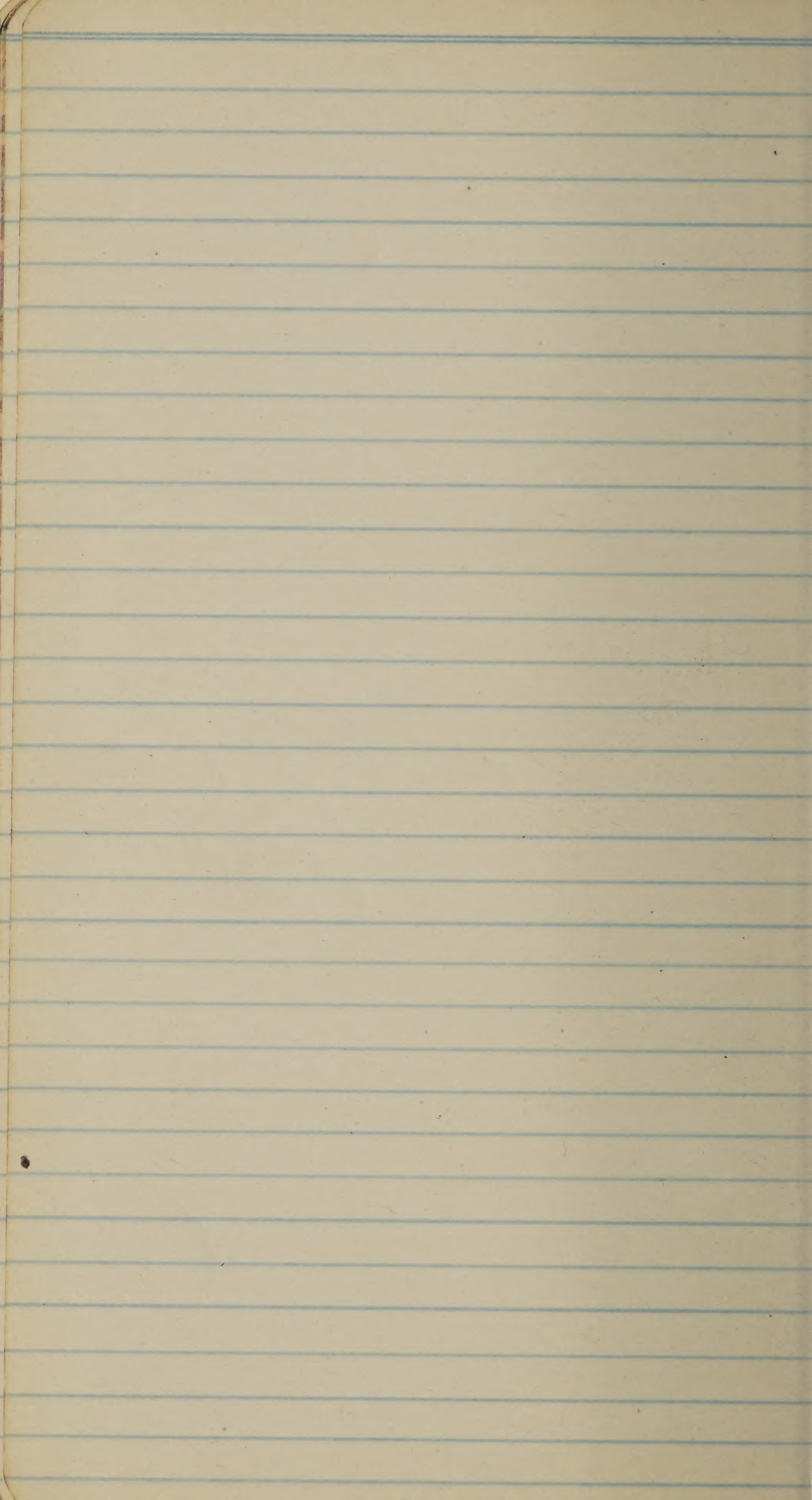
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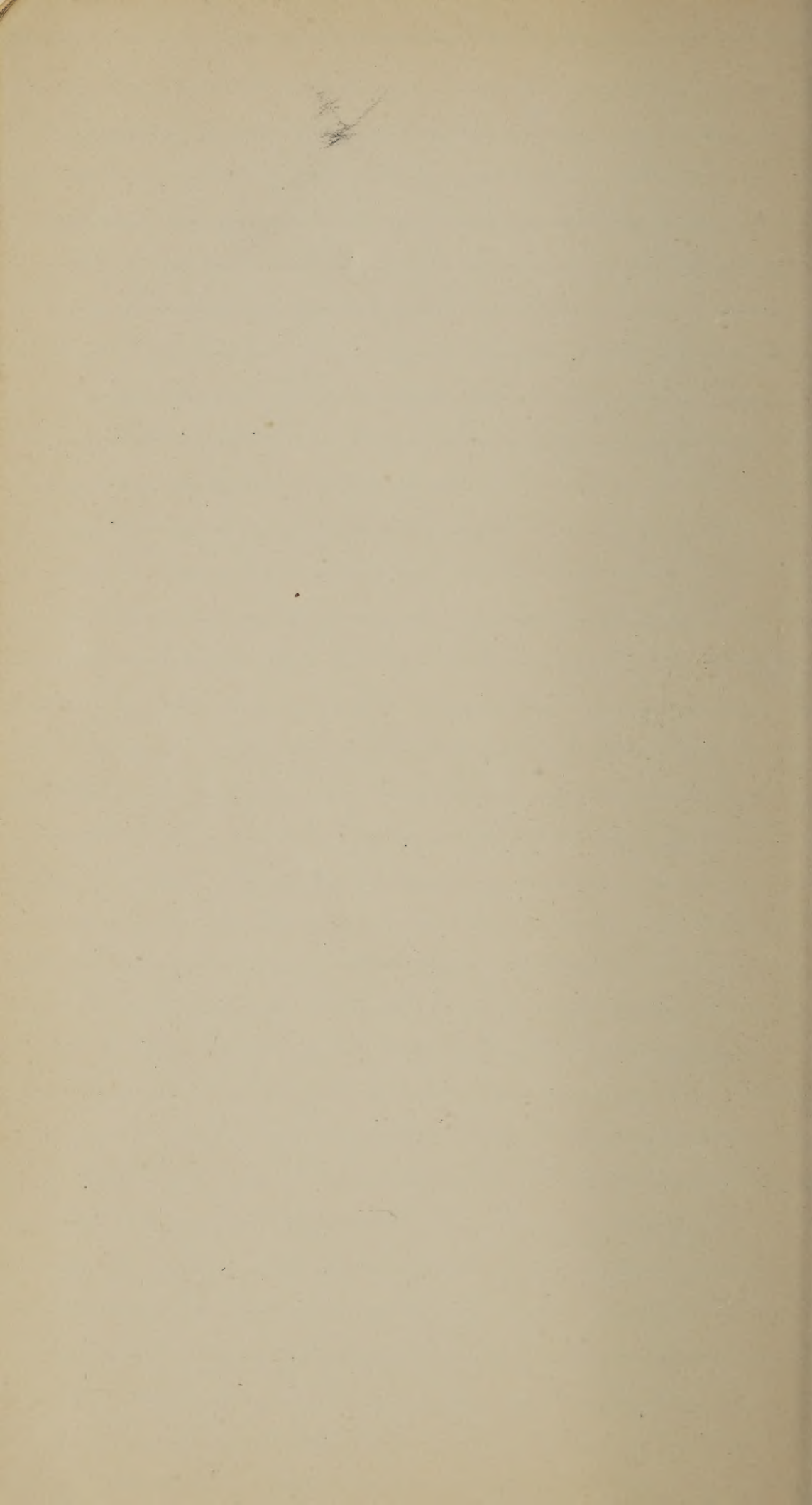












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